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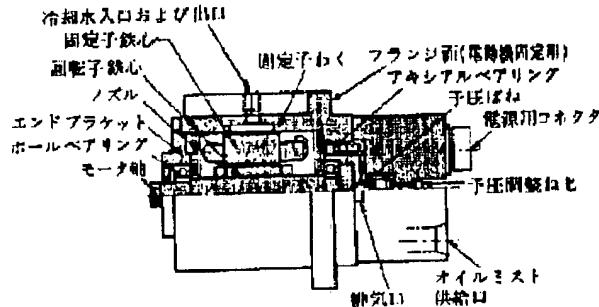
APPLICATION DATE : 09-11-92
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APPLICANT : HITACHI METALS LTD;

INVENTOR : ARAKAWA SHUNSUKE;

INT.CL. : C22C 45/02 H02K 1/02 H02K 15/02

TITLE : MOTOR



ABSTRACT : PURPOSE: To realize a motor with high efficiency by constituting the motor from the iron core of a nanocrystal alloy in which nanocrystal grains having a specified grain size occupy the specified % of the structure.

CONSTITUTION: The motor is constituted from the iron core of a nanocrystal alloy in which fine nanocrystal grains having ≤ 500 grain size occupy at least 50% of the structure. The nanocrystals are essentially consisting of Fe and contain, as essential components, at least one kind of element selected between Cu and Au and at least one kind of element selected from Ti, V, Zr, Nb, Mo, Hf, Ta and W. Thus, the noise of the motor can be reduced and the service life of the motor can be prolonged.

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